



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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3 Applicant: JOHN GARLAND

4 Title: IMPROVED AUDIO CABLE

5 Serial No: 10/648,612

6 Filing Date: AUGUST 27, 2002

7 Group Art Unit:

8 Attorney Docket No: GARJ 101

9 Date: November 30, 2003

10

11 Mail Stop: Patent Applications
COMMISSIONER FOR PATENTS
12 P.O. Box 1450
13 Alexandria, VA 22313-1450

14 **INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97**

15 In compliance with Applicant's and his attorney's duty of disclosure under 37 CFR
16 1.56, the Applicant does hereby submit the following Information Disclosure Statement,
17 Form PTO - 1449, and copies of the references listed thereon.

18 A patent search was manually conducted for the invention described in the above-
19 referenced patent application. In the course of the search, no patents were found for an
20 apparatus that has the same structural features or that operates in the same manner such as the
21 invention listed above. The following eleven (11) patents, however, were noted as being of
22 interest and are hereby brought to the Examiner's attention as references AA - AK. The
23 significance of each listed reference is as follows:

1 AA. Reference U.S. Patent No. 6,248,954 B1 (Clark et al.) discloses an improved
2 data telecommunications cable according to the invention includes a plurality of twisted pairs
3 of insulated conductors, and a dielectric pair separator formed with a plurality of folds, to
4 provide a plurality of grooves extending along a longitudinal length of the dielectric filler.
5 Each twisted pair of insulated conductors is disposed within a groove of the dielectric pair
6 separator. The data communications cable also includes a jacket assembly enclosing the
7 plurality of twisted pairs of insulated conductors and the dielectric pair separator. The
8 dielectric pair separator separates each twisted pair of insulated conductors from every other
9 twisted pair of insulated conductors with spacing sufficient to provide a desired cross talk
10 isolation between each of the plurality of twisted pairs of insulated conductors. With this
11 arrangement, the data communications cable of the invention may be used in high speed data
12 transmissions while maintaining a form factor that has desired flexibility and workability, and
13 provides a cable that is compatible with industry standard hardware, such as plugs and jacks.
14 The data communications cable of the invention also has the additional benefit of a reduced
15 size.

16 AB. Reference U.S. Patent No 6,225,563 (Poulsen) discloses an improved data
17 telecommunications cable according to the invention includes a plurality of twisted pairs of
18 insulated conductors, and a dielectric pair separator formed with a plurality of folds, to
19 provide a plurality of grooves extending along a longitudinal length of the dielectric filler.
20 Each twisted pair of insulated conductors is disposed within a groove of the dielectric pair
21 separator. The data communications cable also includes a jacket assembly enclosing the
22 plurality of twisted pairs of insulated conductors and the dielectric pair separator. The

1 dielectric pair separator separates each twisted pair of insulated conductors from every other
2 twisted pair of insulated conductors with a spacing sufficient to provide a desired crosstalk
3 isolation between each of the plurality of twisted pairs of insulated conductors. With this
4 arrangement, the data communications cable of the invention may be used in high speed data
5 transmissions while maintaining a form factor that has desired flexibility and workability, and
6 provides a cable that is compatible with industry standard hardware, such as plugs and jacks.
7 The data communications cable of the invention also has the additional benefit of a reduced
8 size.

9 AC. Reference U.S. Patent No. 6,066,799 (Nugent) discloses an improved twisted-
10 pair interconnect that includes a first conductor and second conductor. Over the first half of
11 the interconnect the first conductor is uninsulated and the second conductor is insulated. An
12 insulation barrier is provided at the midpoint of the interconnect to prevent shorting.

13
14 AD. Reference U.S. Patent No. 5,606,151 (Siekierka et al.) discloses a cable which
15 is exceptionally suitable for high frequency signal transmission which includes at least two
16 adjoined insulated conductors which are twisted together to form a pair. The embodiment
17 may employ a metallic shield under the encasement.

18
19 AE. Reference U.S. Patent No. 5,393,933 (Goertz) discloses an audio signal cable
20 for interconnecting a power source and a load, e.g. a power amplifier and a loudspeaker,
21 wherein the geometry of the conductors and the dielectric which separates them has been
22 adapted to raise the capacitance and lower the inductance of the cable.

1 AF. Reference U.S. Patent No. 5,376,758 (Kimber) discloses a speaker cable
2 assembly having sets of inductors braided about an enlarged flexible core assembly. The
3 conductors are spirally wound about the flexible core, which is preferably filled with lead
4 shot to provide weight to insure stability during use and operation.

5

6 AG. Reference U.S. Patent No. 5,266,744 (Fitzmaurice) discloses first and second
7 elongate transmission lines, each having an inner conductor and a coaxial outer conductor
8 and insulating material disposed between the inner conductor and the coaxial outer
9 conductor.

10

11 AH. Reference U.S. Patent No. 4,954,095 (Cogan) discloses a cable especially
12 suited to the transmission of audio-frequency signals. One or more of the conductors is
13 tubular and are constructed and spaced apart so that the assembly approaches theoretical and
14 empirical ideals of electrical signal transmission.

15

16 AI. Reference U.S. Patent No. 4,538,023 (Brisson) discloses an audio cable in
17 which a plurality of outer conductors surround one or more inner conductors. The outer
18 conductors provide a path for the relatively high frequency components of the signal and the
19 inner conductors provide a path for the relatively low frequency components of the signal.

20

21 AJ. Reference U.S. Patent No. 3,448,222 (Greber) shows the concept on a wire
22 helically wrapped around a central strand of wire to separate the wire from the other wire
23 strands (see Fig. 4).

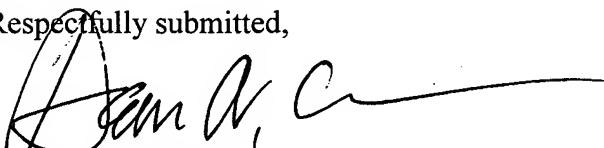
1 AK. Reference U.S. Patent No. 1,305,247 (Beaver et al.) discloses a twin core
2 cable composed of two conductors separated by a strip of rubber or other suitable insulating
3 material. The two conductors are twisted or spiraled around one another.

4

5 The Applicant and his attorney submit that the above-cited references taken alone or
6 in a combination neither anticipate nor render obvious the present invention. None of the
7 references disclose or claim an improved audio cable comprising a first conductor, a second
8 conductor and a shielding means extending longitudinally and disposed between said first
9 and second conductor, said shielding member being made of material capable of shielding
10 EM and RF energy, said shielding means includes at least one lens that exposes said
11 conductors to each other and thereby reducing inductance in said conductors while
12 maintaining a relatively low capacitance. The listed references relate only to the general field
13 of the disclosure and do not constitute an admission that the references are relevant or
14 material to the claims; they are cited only as constituting the closest art of which the
15 Applicant and his attorney are aware.

16

17 Respectfully submitted,

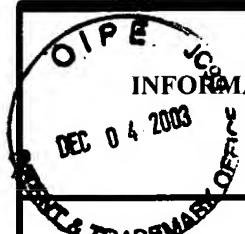
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19 DEAN A. CRAINE

20 Reg. No. 33,591

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INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

Docket Number (Optional) GARJ 101	Application Number 10/648,612
Applicant(s) JOHN GARLAND	
Filing Date AUGUST 27, 2002	Group Art Unit

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA.	6,248,954 B1	06/19/2001	CLARK ET AL.	174	113	02/25/1999
	AB.	6,225,563 B1	05/01/2001	POULSEN	174	117	04/12/1999
	AC	6,066,799	05/23/2000	NUGENT	174	27	12/30/1998
	AD.	5,606,151	02/25/1997	SIEKIERKA ET AL.	174	113R	03/17/1993
	AE.	5,393,933	02/28/1995	GOERTZ	174	117R	03/15/1993
	AF.	5,376,758	12/27/1994	KIMBER	174	128.1	12/06/1993
	AG.	5,266,744	11/30/1993	FITZMAURICE	174	103	02/06/1992
	AH.	4,954,095	09/04/1990	COGAN	439	284	03/01/1989
	AG.	4,538,023	08/27/1985	BRISSON	174	115	12/30/1983
	AJ.	3,448,222	06/03/1969	GREBER	174	42	12/07/1967
	AK.	1,305,247	06/03/1919	BEAVER & CLAREMONT			11/27/1918

FOREIGN PATENT DOCUMENTS

REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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CERTIFICATE OF MAILING BY FIRST CLASS MAIL (37 CFR 1.8)

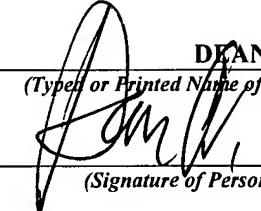
Applicant(s): JOHN GARLAND		Docket No. GARJ 101	
Serial No. 10/648,612	Filing Date AUGUST 27, 2002	Examiner	Group Art Unit
Invention: IMPROVED AUDIO CABLE			

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(Identify type of correspondence)

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